

*Replaced by Article 3y*

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## CLAIMS

1. A method of providing at least one projection on a tubular body of the type required by the oil and gas industry for use in recovery of and transporting of crude oil or gas, namely oil-country-tubular goods (OCTG), said projection having a predetermined form such as a blade, ribbing, or the like stand-off projection, by providing materials capable of being moulded, applying a mould to a tubular (OCTG) body, and moulding said materials using said mould onto said tubular body.

2. A method according to claim 1, wherein the method comprises providing composite resin materials loaded with hard particles, and applying the materials directly to an exterior surface portion of a tubular body by means of a mould, and curing the resin materials to provide at least one projection of a predetermined size and shape conforming to the design of the mould pattern, said projection serving to provide lands for engagement of surfaces downhole.

3. A tubular body, having moulded thereto by a process such as that claimed in Claim 1 in a predetermined position, at least one projection having a predetermined

form such as a blade, ribbing, or the like stand-off projection.

4. A prefabricated tubular body for use downhole, said  
5 prefabricated tubular body being characterised by  
integral centraliser formations, said formations being  
formed as projections moulded directly onto the tubular  
body from mouldable materials comprising a curable resin,  
ceramic particulate filler materials, optionally  
10 including chopped carbon fibre materials .

5. A prefabricated tubular body according to claim 4)  
wherein the said tubular body with integral centraliser  
is formed by providing a resin-ceramic composite material  
15 e.g. as powders, particles, fibrils, chopped fibres,  
beads or the like mouldable particulates, optionally  
including fillers or other moulding auxiliaries, and  
means for curing or setting the resin into a moulded form  
on said tubular body.

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6. A prefabricated tubular body according to claim 4 or  
claim 5, wherein said means for curing or setting the  
resin comprises a mould, and that mould is utilised in a  
moulding operation that comprises applying at least one  
25 appropriately contoured moulding part of the mould to a

tubular body, loading the mould with resin-ceramic materials in predetermined amounts to form the desired composite, suitably by injecting the materials into the mould, curing the materials in the mould, and removing  
5 the mould part(s) to leave the desired moulded part formed on the tubular body.

7. A prefabricated tubular body with integral moulded centraliser according to anyone of claims 4 to 6, wherein  
10 after removal of the mould part(s), the tubular body is coated with resins, paints, or land surface finishing agents.

8. A composite centraliser for installation on a tubular  
15 (OCTG) body, comprises a tubular core adapted to be installed on a tubular body in a manner such as to permit rotation of the tubular body within the core in use, said tubular core having moulded thereto, in a predetermined position, at least one projection having a predetermined  
20 form such as a blade, ribbing, or the like stand-off projection.

9. A method of making a composite centraliser comprising the selection of a tubular core suitable for installation  
25 around an OCTG tubular, and providing at least one

projection on said tubular core, said projection having a predetermined form such as a blade, ribbing, or the like stand-off projection, by providing materials capable of being moulded, applying a mould to the tubular core, and  
5 moulding said materials using said mould onto said tubular core.

10. A method according to claim 9, wherein the core is made of metal, and the said projections, which are  
10 moulded thereto and provide lands for surface engagement downhole, are formed from a resin-ceramic composite material e.g. as powders, particles, fibrils, chopped fibres, beads or the like mouldable particulates, optionally including fillers or other moulding  
15 auxiliaries.